VSR CIVIL INFRA PVT. LTD.

Engineering project Consultants

VSR/BBMP/YNK/W.No.007/005/2020-21 Date: 26.12.2020

CERTIFICATE

Division: Project Yelahanka

Sub Division: Project Yelahanka

Ward No: 07

Name of Work: Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Running Account Bill: 1st and Final Bill

Value of work completed by Contractor Amount: Rs 20585021.68

This is to certify that all the Items of Works have been carried out as per Specifications and Conform to MORTH.

for VSR Civil Infra Pvt. Ltd.

(Authorized Signatory)

Project Management Consultants

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VSR Civil Infra Pvt. Ltd.
#353/B, 6th Main Road, Hanumanthnagar, Cell : 9845230975
Bengaluru – 560 019

Job No. VSR/BBMP/SDV/W No 07/2020-21 Date: 23.09.2020

TEST REPORT

CLIENT	:	Executive Engineer, Project Yelahanka Project, BBMP, Bengaluru.
AGENCY	:	Sri. S D Venkatesh Gowda, Bengaluru.
NAME OF THE WORK	:	Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07
SAMPLE ID	:	Cement (Ultratech – OPC 53 Grade)
DATE OF MANUFACTURE	:	August 2020
DATE OF TESTING	:	23.09.2020 to 25.09.2020
SAMPLES COLLECTED BY	:	15, Sneha Nagar, Latitude N 13° 3' 53.72, Longitude E 77° 35' 44.74

The results of the tests conducted on the cement sample are as follows:

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	420Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No. VSR/BBMP/SDV/W No.07/2020-21 Date 25.09.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.
Agency : Sri. S D Venkatesh Gowda, Bengaluru.
Name of Work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Date of Testing 25.09.2020

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	56	5.60	5.60	94.4	90-100
2.36	162	16.20	21.80	78.2	75-100
1.18	149	14.90	36.70	63.3	55-90
600 Micron	136	13.60	50.30	49.7	35-59
300 Micron	260	26.00	76.30	23.7	8-30
150 Micron	200	20.00	96.30	3.7	0-10

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Bengaluru – 560 019.

Job No. VSR/BBMP/SDV/W.No.07/2020-21 Date 25.09.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**
Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work ::Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Date of Testing 25.09.2020

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	436	2.91	2.91	97.09	95-100
20	5326	35.51	38.41	61.59	30-70
10	5412	36.08	74.49	25.51	10-35
4.75	3200	21.33	95.83	4.17	0-5

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Bengaluru – 560 019.

Job No. VSR/BBMP/SDV/W.No.07/2020-21 Date: 25.09.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**

Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**

Name of Work ::Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Date of Testing 25.09.2020

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	152	3.0	3.0	97.0	95-100
10	2456	49.1	52.2	47.8	25-55
4.75	2164	43.3	95.4	4.6	0-10

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Job No : VSR/BBMP/SDV/W.No.07/2019-20 Date: 28.09.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Yelahanka Project,** BBMP, Bengaluru.
Agency : **Sri. S D Venkatesh Gowda,** Bengaluru
Name of Work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07
Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 28.09.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.33	541	552	14
2	Fe 500	10	0.65	556	564	15
3	Fe 500	12	0.84	569	578	15.5

Remarks:
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Bengaluru – 560 019.

Date: 27.10.2020

Job No.: VSR/BBMP/SDV/W.No.07/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2020	27.10.2020	8.150	341.5	15.18
2	20.10.2020	27.10.2020	8.176	356.2	15.83
3	20.10.2020	27.10.2020	8.230	369.2	16.41

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Bengaluru – 560 019.

Date: 17.11.2020

Job No.: VSR/BBMP/SDV/W.No.07/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2020	17.11.2020	8.101	503.6	22.38
2	20.10.2020	17.11.2020	8.119	529.0	23.51
3	20.10.2020	17.11.2020	8.224	530.6	23.58

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Bengaluru – 560 019.

Job No. VSR/BBMP/SDV/W.No.07/2020-21 Date: 27.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work : *Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07*

Sample ID : *Cement Concrete Drain*

Size of cubes : *150mmx150mmx150mm*

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2020	27.10.2020	8.061	342.5	15.22
2	20.10.2020	27.10.2020	8.123	356.4	15.84
3	20.10.2020	27.10.2020	8.258	361.9	16.08

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Bengaluru – 560 019.

Date: 17.11.2020

Job.No: VSR/BBMP/SDV/W No.07/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2020	17.11.2020	8.060	496.6	22.07
2	20.10.2020	17.11.2020	8.123	500.3	22.24
3	20.10.2020	17.11.2020	8.245	520.8	23.15

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S.NO.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	20.10.2020	27.10.2020	7.789	369.2	16.41
2	20.10.2020	27.10.2020	7.891	369.0	16.40
3	20.10.2020	27.10.2020	7.946	362.8	16.12

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Bengaluru – 560 019.

Job No: VSR/BBMP/SDN/W No.87/2020-21 Date: 17.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Celebration Division, BBMP, Bengaluru

Agency : Sri. S.D Venkatesh Gowda, Bengaluru

Name of the work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2004)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2020	17.11.2020	7.884	501.9	22.31
2	20.10.2020	17.11.2020	7.891	514.6	22.87
3	20.10.2020	17.11.2020	7.987	529.8	23.55

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Bengaluru – 560 019

Job No: VSR/BBMP/KOV/W No.07/2020-21 Date: 28.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Velakasike Division, BBMP, Bengaluru

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru

Name of the work : Improvements to roads and drains in Aramanehalli and surroundings 'B' and 'No 07'

Sample ID : Concrete Concrete Drain

Size of cubes : 150mm(L)*150mm(W)*150mm(D)

Cross Sectional Area : 22500 mm^2

Technical Reference : Is: 516-1959 (Reaffirmed 2004)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	28.10.2020	7.604	344.4	15.31
2	21.10.2020	28.10.2020	7.750	363.2	16.14
3	21.10.2020	28.10.2020	7.896	374.5	16.64

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#15/2, 8th Main Road, Hanumanthnagar, Call : 9845230875
Bengaluru – 560 019

Job No: VSR/BMRCL/QA/ W No.07/2020-21 Date: 18.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Viaducts Division, BMRCL, Bengaluru

Agency : 8th & 9 B Venkataiah Gowda, Bengaluru

Name of the work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS 516-1959 (Reaffirmed 2004)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	18.11.2020	7.689	512.3	22.77
2	21.10.2020	18.11.2020	7.796	524.3	23.30
3	21.10.2020	18.11.2020	7.809	526.9	23.42

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Bengaluru – 560 019.

Job No: VSR/BBMP/SDV/W.No.07/2020-21 Date: 28.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	28.10.2020	8.030	340.7	15.14
2	21.10.2020	28.10.2020	8.115	353.4	15.71
3	21.10.2020	28.10.2020	8.221	367.8	16.35

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Bengaluru – 560 019.

Job No: VSR/BBMP/SDV/W.No.07/2020-21 Date: 18.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	18.11.2020	7.789	512.3	22.77
2	21.10.2020	18.11.2020	7.823	523.4	23.26
3	21.10.2020	18.11.2020	7.994	536.9	23.86

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Bengaluru – 560 019.

Job No: VSR/BBMP/SDV/W.No.07/2020-21 Date: 28.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	28.10.2020	7.688	354.3	15.75
2	21.10.2020	28.10.2020	7.796	368.7	16.39
3	21.10.2020	28.10.2020	7.897	376.5	16.73

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#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.07/2020-21

Date: 18.11.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.
Agency	: **Sri. S D Venkatesh Gowda,** Bengaluru.
Name of the work	:Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07
Sample ID	: Cement Concrete Drain
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.10.2020	18.11.2020	7.898	509.4	22.64
2	21.10.2020	18.11.2020	7.966	512.3	22.77
3	21.10.2020	18.11.2020	7.994	524.7	23.32

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Bengaluru – 560 019.

Job No: VSR/BBMP/SDV/W.No.07/2020-21

Date: 29.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work : Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.10.2020	29.10.2020	8.050	341.7	15.18
2	22.10.2020	29.10.2020	8.145	352.3	15.66
3	22.10.2020	29.10.2020	8.233	364.5	16.20

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

VSR CIVIL INFRA PVT. LTD. BANGALORE 560 019

Consultants representative **Contractor representative** **Client Representative**

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#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.07/2020-21 Date: 19.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Amruthahalli and surroundings Ward No – 07

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.10.2020	19.11.2020	8.075	498.6	22.16
2	22.10.2020	19.11.2020	8.121	506.3	22.50
3	22.10.2020	19.11.2020	8.269	518.9	23.06

Note:

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